Mercury and Mercury Compounds

Chemical Information

Mercury (CAS 7439-97-6) is a heavy, silver-white metal that exists as a liquid at ambient temperatures.

CAS Number - 7439-97-6

General Uses - It is a precious metal used in chlor-alkali production, wiring devices, switching mechanisms, amalgam dental fillings, and measurement and control instruments. Industries also manufacture and process mercury reagents, catalysts, and medicinal chemicals. Metal ores, coal, crude oil, and fuel oils contain mercury as a trace constituent. Mercury is produced as a byproduct of gold ore mining operations. Secondary production of mercury involves the recovery of mercury from dismantled equipment and recovery from scrap and industrial wastes using a thermal or chemical extractive process. Major sources of recycled or recovered mercury include scrap from instrument and electrical manufactures (lamps and switches), wastes and sludge from laboratories and electrolytic refining plants, mercury batteries, and dental amalgams. Mercury is also found as a trace contaminant in fossil fuels and waste materials. The combination of the elevated temperature of the process and the volatility of Mercury and Mercury Compounds results in their being emitted in the combustion gas exhaust stream. Two general categories of mercury emissions sources exist involving fuel combustion for energy, steam and heat generation, as well as waste disposal processes.

Potential Hazards - The nervous system is sensitive to all forms of mercury. Methyl mercury and metallic mercury vapors are more harmful than other forms. Exposure to high levels of metallic, inorganic, or organic mercury can permanently damage the brain, kidneys, and developing fetus.

Summary Analysis – Mercury and Mercury Compounds.

- In 2003, the 40,450 pounds of mercury and mercury compounds comprised about 0.1 percent of the total PC quantity.
- The number of facilities that reported mercury and mercury compounds increased each year since 2000, with 540 facilities reporting this chemical in 2003. Prior to 2000, only 27 facilities reported a PC quantity of mercury and mercury compounds. This significant increase was likely due to the lowered TRI reporting threshold (10 pounds) for mercury and mercury compounds.
- Almost 100 percent of mercury and mercury compounds was land disposed.
- The more than 490,000 pounds of mercury and mercury compounds recycled in 2003 represented about an 8 percent increase in recycling compared to the quantity recycled in 2002.
- Of the 540 facilities that reported mercury and mercury compounds in 2003, 10 facilities accounted for about 49 percent of the total quantity of this chemical. Sixty facilities accounted for almost 85 percent of the total quantity.
- In 2003, about 80 percent of mercury and mercury compounds were reported by facilities in 4 Regions (Regions 3, 4, 5, and 6).
- Facilities in every state and territory (except Puerto Rico and Vermont) reported a PC quantity of mercury and mercury compounds in 2003. Facilities in 12 states reported over 80 percent of the total quantity in 2003. Facilities in Texas reported the largest PC

- quantity of mercury and mercury compounds in 2003, accounting for almost 15 percent of the total quantity.
- Facilities in over 90 SIC codes reported a PC quantity of mercury and mercury compounds in 2003. Over 90 percent was reported by facilities in 18 of the industry sectors (SIC codes); facilities in 3 of these industry sectors accounted for almost 60 percent of the total quantity: SIC 2819 (Industrial inorganic chemicals, nec), SIC 3312 (Blast furnaces and steel mills), and SIC 2812 (Alkalies and chlorine).

National Trends – Mercury and Mercury Compounds. The 40,540 pounds of mercury and mercury compounds accounted for about 0.1 percent of the total PC quantity in 2003. Exhibit 4.141 shows that the number of facilities that reported mercury and mercury compounds has risen each year since 2000, with 540 facilities reporting in 2003. Prior to 2000, only 27 facilities reported a PC quantity of mercury and mercury compounds. The increase in reporting facilities was likely due to the lower TRI reporting threshold (10 pounds) for mercury and mercury compounds that became effective for the 2000 TRI Reporting Year. The large increase in the number of reporting facilities contributed to an increase of almost 70 percent of the reported PC quantity of mercury and mercury compounds in 2000, compared to the quantity reported in 1999. Almost 100 percent of mercury and mercury compounds was land disposed. This is indicative of the fact that metals, including mercury and mercury compounds, are not amenable to destruction via treatment and have no energy value. Although treatment and energy recovery quantities were reported for mercury and mercury compounds since 1999, these quantities are steadily decreasing – likely due to improved data quality assurance by the TRI Program and increased awareness by reporting facilities that land disposal is the most suitable method to be reported for this chemical. Although the quantity of mercury and mercury compounds reported as recycled has decreased by almost 42 percent compared to the quantity recycled in 1999, the quantity recycled has remained relatively constant since 2000.

Exhibit 4. 141. National-Level Information for Mercury and Mercury Compounds (1999-2003)

| | 1999 | 2000 | 2001 | 2002 | 2003 | Percent Change (1999-2003) | Management Method Percent of Quantity of this Chemical in 2003 |
|---------------------------|---------|---------|---------|---------|---------|----------------------------------|--|
| Number of Facilities | 27 | 477 | 502 | 513 | 540 | 1900.0% | |
| Disposal Quantity (lbs.) | 47,066 | 86,129 | 94,168 | 95,226 | 40,475 | -14.0% | 99.8% |
| Energy Recovery | | | | | | | |
| Quantity (lbs.) | 0 | 93 | 2 | 0 | 0 | NA | 0.0% |
| Treatment Quantity | | | | | | | |
| (lbs.) | 5,813 | 3,480 | 36,605 | 1,897 | 65 | -98.9% | 0.2% |
| Priority Chemical | | | | | | | |
| Quantity (lbs.) | 52,879 | 89,702 | 130,775 | 97,124 | 40,540 | -23.3% | |
| Recycling Quantity (lbs.) | 846,239 | 450,310 | 442,954 | 455,987 | 491,839 | -41.9% | |

Exhibit 4.142 shows the number of facilities that reported mercury and mercury compounds, within ranges of quantities. Of the 540 facilities that reported mercury and mercury compounds in 2003, 10 facilities accounted for about 49 percent of the total quantity of this chemical. Sixty facilities accounted for almost 85 percent of the total quantity.

Exhibit 4. 142. Distribution of Facilities that Reported Quantities for Mercury and Mercury Compounds (2003)

| Mercury a | Mercury and Mercury Compounds (40,540 pounds) | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Quantity Reported | Number of Facilities Reporting this quantity (2003) | Percent of Total Quantity for this Priority Chemical | | | | | | | | | |
| up to 10 pounds | 320 | 2.1% | | | | | | | | | |
| between 11 - 100 pounds | 160 | 13.0% | | | | | | | | | |
| between 101 -1,000 pounds | 50 | 35.7% | | | | | | | | | |
| between 1,001 - 10,000 pounds | 10 | 49.1% | | | | | | | | | |
| between 10,001 - 100,000 pounds | 0 | 0.0% | | | | | | | | | |
| between 100,001 - 1 million pounds | 0 | 0.0% | | | | | | | | | |
| > 1 million pounds | 0 | 0.0% | | | | | | | | | |

EPA Region Trends—Mercury and Mercury Compounds. Exhibit 4.143 shows the quantity (pounds) of mercury and mercury compounds reported by facilities in each EPA Region in 1999 to 2003. In 2003, facilities in 4 Regions (Regions 3, 4, 5, and 6) reported about 80 percent of mercury and mercury compounds. Facilities in Region 6 reported almost 10,000 pounds, about 25 percent, of the total quantity in 2003. This represents a decrease of almost 53 percent compared to the quantity reported by Region 6 facilities in 2000. Compared to the quantities reported in 2000 (the year in which the TRI reporting threshold was lowered), facilities in 5 other Regions also reported a decreased quantity of mercury and mercury compounds: Region 10 (-94.50%), Region 4 (-56.3%), Region 1 (-55.3%), Region 2 (-52.4%), and Region 5 (-49.6%). Increased quantities of mercury and mercury compounds were reported by facilities in 4 Regions: Region 3 (+148.8%), Region 9 (+90.4%), Region 8(+84.8%), and Region 7 (+16.5%). Exhibit 4.144 shows the distribution of mercury and mercury compounds reported across EPA regions and their respective facilities in 2003.

Exhibit 4. 143. Quantity of Mercury and Mercury Compounds by EPA Regions (1999-2003)

| EPA Region | 1999 | 2000 | 2001 | 2002 | 2003 | Change in Quantity (2000-2003) | Percent Change in Quantity (2000-2003) | Percent Of the Total Priority Chemical quantity (2003) |
|---------------|--------|--------|--------|--------|-------|--------------------------------------|--|--|
| 6 | 2,794 | 21,079 | 12,959 | 24,280 | 9,960 | -11,119 | -52.7% | 24.6% |
| 5 | 8,514 | 16,033 | 4,995 | 4,542 | 8,077 | -7,956 | -49.6% | 19.9% |
| 3 | 1,439 | 2,985 | 21,276 | 6,055 | 7,427 | 4,443 | 148.8% | 18.3% |
| 4 | 3,262 | 15,595 | 35,557 | 48,940 | 6,820 | -8,776 | -56.3% | 16.8% |
| 9 | 0 | 1,171 | 51,382 | 6,925 | 2,229 | 1,058 | 90.4% | 5.5% |
| 1 | 1,612 | 4,200 | 647 | 611 | 1,877 | -2,324 | -55.3% | 4.6% |
| 10 | 35,201 | 25,193 | 1,515 | 1,351 | 1,397 | -23,796 | -94.5% | 3.4% |
| 7 | 10 | 903 | 719 | 1,614 | 1,052 | 149 | 16.5% | 2.6% |
| 2 | 47 | 2,185 | 1,440 | 2,247 | 1,039 | -1,146 | -52.4% | 2.6% |
| 8 | 0 | 359 | 286 | 559 | 662 | 304 | 84.8% | 1.6% |

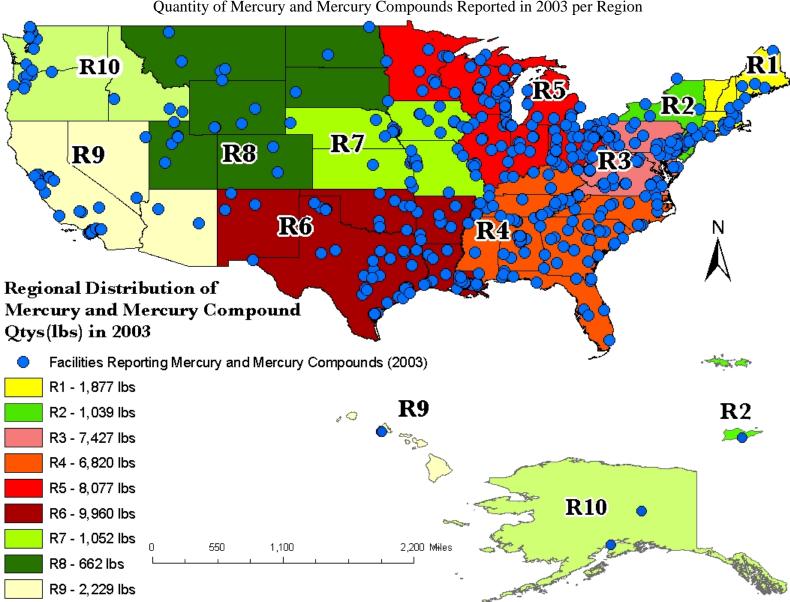


Exhibit 4. 144. Distribution of Facilities Reporting Mercury and Mercury Compounds in 2003 & Quantity of Mercury and Mercury Compounds Reported in 2003 per Region

Exhibit 4.145 shows how mercury and mercury compounds were managed by facilities in each EPA Region in 2003. Virtually all of the PC quantity of mercury and mercury compounds was land disposed -- offsite disposal (72 %) and onsite disposal (28%). Facilities in many of the Regions reported significant recycling of mercury and mercury compounds.

R10 - 1,397 lbs

Exhibit 4. 145. Management Methods for Mercury and Mercury Compounds, By EPA Region (2003)

| | Disp | osal | Energy I | Recovery | Treati | nent | Recy | cling |
|---------------|--------------------|---------------------|------------------------------|-------------------------------|---------------------|----------------------|---------------------|----------------------|
| EPA Region | Onsite Disposal | Offsite Disposal | Onsite Energy Recovery | Offsite Energy Recovery | Onsite Treatment | Offsite Treatment | Onsite Recycling | Offsite Recycling |
| 1 | 31 | 1,841 | 0 | 0 | 0 | 4 | 0 | 1,863 |
| 2 | 12 | 1,027 | 0 | 0 | 0 | 0 | 132 | 49 |
| 3 | 262 | 7,157 | 0 | 0 | 0 | 9 | 316,956 | 38,395 |
| 4 | 4,155 | 2,664 | 0 | 0 | 0 | 0 | 42,190 | 8,491 |
| 5 | 477 | 7,547 | 0 | 0 | 0 | 52 | 5,561 | 9,771 |
| 6 | 4,523 | 5,437 | 0 | 0 | 0 | 0 | 58,020 | 8,791 |
| 7 | 137 | 915 | 0 | 0 | 0 | 0 | 0 | 361 |
| 8 | 442 | 221 | 0 | 0 | 0 | 0 | 0 | 44 |
| 9 | 512 | 1,717 | 0 | 0 | 0 | 0 | 57 | 120 |
| 10 | 824 | 573 | 0 | 0 | 0 | 0 | 0 | 1,040 |

State Trends—Mercury and Mercury Compounds. Facilities in every state and territory (except Puerto Rico and Vermont) reported a PC quantity of mercury and mercury Compounds in 2003. Exhibit 4.146 shows the quantity of mercury and mercury compounds, in 1999-2003, in those 12 states where facilities comprised over 80 percent of the total quantity in 2003. Facilities in Texas reported the largest quantity of mercury and mercury compounds in 2003, accounting for almost 15 percent of the total quantity.

Facilities in many of the states reported an increased quantity of mercury and mercury compounds. Facilities in Pennsylvania reported about 47 percent of the overall increase (6,279 pounds) in quantity (Exhibit 4.147). Significant increases also were reported by facilities in Florida, Alabama, Louisiana, and Connecticut.

In addition to the decreased quantity reported by facilities in Texas, facilities in Ohio and Tennessee also reported decreased quantities of mercury and mercury compounds, compared to the quantities reported in 2000. (Exhibit 4.147).

Exhibit 4. 146. State-Level Information for Mercury and Mercury Compounds (1999-2003)

| State | 1999 | 2000 | 2001 | 2002 | 2003 | Change in quantity (2000-2003) | Percent Change in Quantity (2000-2003) | Percent of Total Quantity of Mercury and Mercury Compounds (2003) |
|--------------|-------|-------|-------|--------|-------|--------------------------------|---|---|
| Texas | 2,303 | 6,725 | 8,013 | 4,884 | 5,986 | -740 | -11.0% | 14.8% |
| Ohio | 242 | 9,049 | 2,163 | 1,968 | 5,445 | -3,604 | -39.8% | 13.4% |
| Louisiana | 486 | 2,138 | 4,738 | 19,050 | 3,756 | 1,618 | 75.7% | 9.3% |
| Pennsylvania | 293 | 580 | 3,043 | 3,108 | 3,555 | 2,975 | 512.8% | 8.8% |
| Alabama | 415 | 913 | 8,271 | 15,863 | 2,618 | 1,706 | 186.9% | 6.5% |

| Delaware | 1,081 | 1,327 | 1,047 | 1,277 | 2,150 | 823 | 62.0% | 5.3% |
|-------------|-------|-------|--------|-------|-------|--------------------------------|---|---|
| State | 1999 | 2000 | 2001 | 2002 | 2003 | Change in quantity (2000-2003) | Percent Change in Quantity (2000-2003) | Percent of Total Quantity of Mercury and Mercury Compounds (2003) |
| Florida | 0 | 214 | 1,284 | 1,188 | 2,011 | 1,797 | 840.8% | 5.0% |
| Connecticut | 0 | 259 | 408 | 332 | 1,766 | 1,507 | 582.8% | 4.4% |
| California | 0 | 1,086 | 51,282 | 6,639 | 1,713 | 627 | 57.8% | 4.2% |
| West | | | | | | | | |
| Virginia | 62 | 320 | 16,773 | 1,009 | 1,249 | 929 | 290.7% | 3.1% |
| Wisconsin | 41 | 630 | 748 | 1,189 | 1,107 | 478 | 75.8% | 2.7% |
| Tennessee | 1,793 | 2,846 | 1,924 | 1,960 | 1,008 | -1,838 | -64.6% | 2.5% |

Exhibit 4. 147. Trends Analysis on States with Largest Quantity Increase and Decrease (1999 – 2003): Facilities in Pennsylvania and Ohio

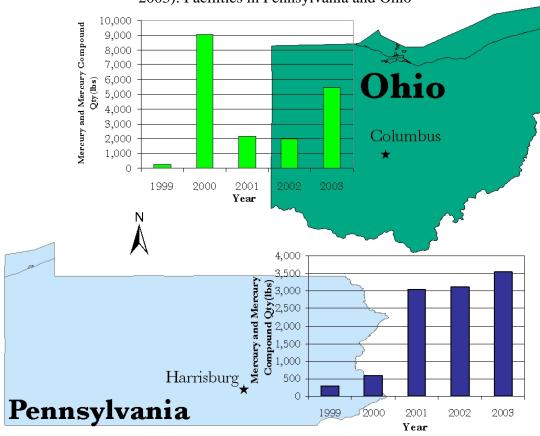
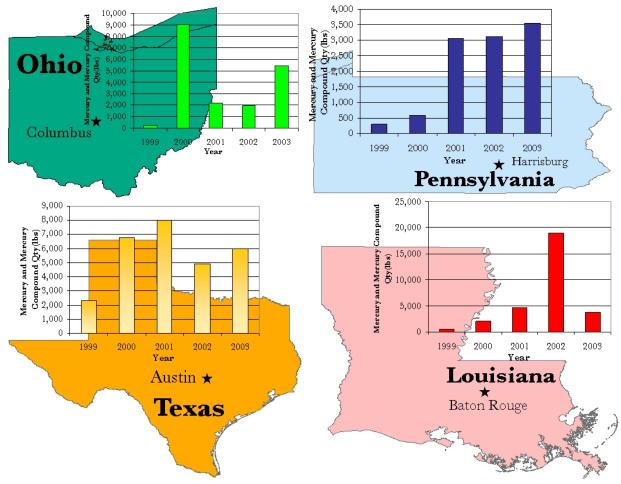


Exhibit 4.148 shows how mercury and mercury compounds were managed by facilities in these 12 states. Virtually 100 percent of the mercury and mercury compounds from facilities in these states was land disposed, mostly (74%) offsite. For numerous facilities in these states, the recycling quantities were considerably greater than the PC quantities that were land disposed.

Exhibit 4. 148. Management of Mercury and Mercury Compounds in States (2003)

| State | Total Priority Chemical Quantity (2003) | Onsite Disposal | Offsite Disposal | Onsite Energy Recovery | Offsite Energy Recovery | Onsite Treatment | Offsite Treatment | Onsite Recycling | Offsite Recycling |
|--------------|---|--------------------|---------------------|------------------------------|-------------------------------|---------------------|----------------------|---------------------|----------------------|
| Texas | 5,986 | 2,340 | 3,646 | 0 | 0 | 0 | 0 | 0 | 1,418 |
| Ohio | 5,445 | 190 | 5,255 | 0 | 0 | 0 | 0 | 462 | 6,785 |
| Louisiana | 3,756 | 2,111 | 1,645 | 0 | 0 | 0 | 0 | 58,017 | 380 |
| Pennsylvania | 3,555 | 75 | 3,472 | 0 | 0 | 0 | 9 | 209,264 | 38,372 |
| Alabama | 2,618 | 547 | 2,072 | 0 | 0 | 0 | 0 | 15,417 | 136 |
| Delaware | 2,150 | 34 | 2,116 | 0 | 0 | 0 | 0 | 2,182 | 1 |
| Florida | 2,011 | 1,984 | 26 | 0 | 0 | 0 | 0 | 0 | 1,823 |
| Connecticut | 1,766 | 0 | 1,762 | 0 | 0 | 0 | 4 | 0 | 1,041 |
| California | 1,713 | 19 | 1,694 | 0 | 0 | 0 | 0 | 56 | 120 |
| West | | | | | | | | | |
| Virginia | 1,249 | 60 | 1,189 | 0 | 0 | 0 | 0 | 105,510 | 0 |
| Wisconsin | 1,107 | 75 | 1,032 | 0 | 0 | 0 | 0 | 5,083 | 11 |
| Tennessee | 1,008 | 887 | 121 | 0 | 0 | 0 | 0 | 25,952 | 170 |

Exhibit 4. 149. Trends Analysis of States Reporting 4 Largest Quantities of Mercury and Mercury Compounds (2003)



Industry Sector (SIC) Trends—Mercury and Mercury Compounds. Facilities in over 90 SIC codes reported a PC quantity of mercury and mercury compounds in 2003. Exhibit 4.150 shows the PC quantity (pounds) of mercury and mercury compounds reported in the 18 industry sectors (SIC codes) where facilities accounted for almost 90 percent of the mercury and mercury compounds in 2003. Facilities in 3 of these industry sectors accounted for almost 60 percent of the total quantity: SIC 2819 (Industrial inorganic chemicals, nec), SIC 3312 (Blast furnaces and steel mills), and SIC 2812 (Alkalies and chlorine). Almost all of these industry sectors had a significant increase in 2000 – perhaps due to the lowered TRI reporting threshold that became effective for mercury and mercury compounds beginning in 2000. Since then, the total PC quantity of mercury and mercury compounds decreased in 6 of the industry sectors, including:

- SIC 3312 (Blast furnaces and steel mills) a decrease of 65.1%
- SIC 2869 (Industrial organic chemicals, nec) a decrease of 94.8%
- SIC 2911 (Petroleum refining) a decrease of 63.8%
- SIC 3692 (Primary batteries, wet and dry) a decrease of 82.3%).

Among those industry sectors for which the total quantity of Mercury and Mercury Compounds increased since 2000 were:

- SIC 2819 (Industrial organic chemicals, nec) -- an increase of 107.6%
- SIC 3823 (Process control instruments) an increase of 1833%

Exhibit 4. 150. Industry Sector-Level Information for Mercury and Mercury Compounds (1999-2003)

| Primary SIC Code | SIC Description | Number of Facilities for this SIC Code (2003) | 1999 | 2000 | 2001 | 2002 | 2003 | Change in Quantity (2000-2003) | Percent Change (2000- 2003) | Percent of Total Quantity of this Priority Chemical (2003) |
|------------------------|--------------------------------------|--|-------|------------|---|------------|------------|---|--------------------------------------|--|
| •040 | Industrial inorganic | | | | | 0.044 | | | 407 444 | |
| 2819 | chemicals, nec Blast furnaces and | 27 | 293 | 4,763 | 8,137 | 8,946 | 9,887 | 5,124 | 107.6% | 24.4% |
| 3312 | steel mills | 44 | 2,802 | 22,698 | 4,094 | 3,182 | 7,918 | -14,780 | -65.1% | 19.5% |
| 3312 | Alkalies and | 44 | 2,802 | 22,096 | 4,054 | 3,102 | 7,910 | -14,700 | -03.170 | 19.570 |
| 2812 | chlorine | 10 | 7,688 | 5,834 | 25,273 | 6,161 | 6,361 | 527 | 9.0% | 15.7% |
| 2911 | Petroleum refining | 83 | 5 | 6,606 | 4,800 | 2,216 | 2,391 | -4,215 | -63.8% | 5.9% |
| | Process control | | | , | ĺ | | | , | | |
| 3823 | instruments | 1 | 0 | 60 | 0 | 45 | 1,160 | 1,100 | 1833.3% | 2.9% |
| | Metal coating and | | | | | | | | | |
| 3479 | allied services | 1 | 0 | 0 | 6,680 | 11,560 | 1,083 | 1,083 | NA | 2.7% |
| 3274 | Lime | 28 | 3 | 946 | 652 | 535 | 926 | -20 | -2.1% | 2.3% |
| 0000 | Nonclassifiable | 1 | | 120 | 662 | 1.40 | 000 | 7.60 | 550.00/ | 2.20/ |
| 9999 | establishment | 12 | 0 | 138 364 | 663 241 | 140 231 | 900 | 762 347 | 552.3% 95.5% | 2.2% |
| 2046 | Wet corn milling Primary batteries, | 12 | U | 304 | 241 | 231 | /11 | 347 | 95.5% | 1.8% |
| 3692 | dry and wet | 4 | 5 | 3,792 | 467 | 567 | 671 | -3,121 | -82.3% | 1.7% |
| 9711 | National security | 9 | 0 | 55 | 47,568 | 5,394 | 656 | 601 | 1095.7% | 1.6% |
| <i>,</i> ,,,,,, | Phosphatic | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 000 | 001 | 10,017,0 | 11070 |
| 2874 | fertilizers | 4 | 0 | 588 | 1,012 | 1,277 | 646 | 59 | 10.0% | 1.6% |
| 8733 | Noncommercial research organizations | 2 | 0 | 10 | 0 | 1 | 601 | 592 | 6027.0% | 1.5% |
| Primary SIC Code | SIC Description | Number of Facilities for this SIC Code (2003) | 1999 | 2000 | 2001 | 2002 | 2003 | Change in Quantity (2000- 2003) | Percent Change (2000- 2003) | Percent of Total Quantity of this Priority Chemical (2003) |
| • • • • • | Chemical | | | | | | | | | |
| 2899 | preparations, nec | 4 | 0 | 88 | 52 | 304 | 588 | 500 | 565.6% | 1.5% |
| 1.422 | Crushed and broken | 10 | | | | 410 | 5.00 | 500 | NIA | 1 40/ |
| 1422 2621 | limestone Paper mills | 10 | 0 | 1,217 | 0 656 | 418 720 | 566 560 | 566 -657 | NA -54.0% | 1.4% |
| 2021 | Industrial organic | +4 | U | 1,41/ | 0.50 | 120 | 300 | -037 | -34.0% | 1.470 |
| 2869 | chemicals, nec | 19 | 563 | 9,753 | 22,625 | 28,093 | 504 | -9,249 | -94.8% | 1.2% |
| 3641 | Electric lamps | 14 | 0 | 1,387 | 1,092 | 930 | 489 | 475 | -64.8% | 1.2% |

Exhibit 4.151 shows how mercury and mercury compounds were managed by facilities in these 18 industry sectors in 2003. Virtually 100 percent of the mercury and mercury compounds were land disposed, with 73 percent sent offsite disposal and 27 percent disposed onsite. Facilities in SIC 2819 (Industrial organic chemicals, nec) and SIC 2812 (alkalies and chlorine), among others, reported considerable recycling of mercury and mercury compounds.

Exhibit 4. 151. Management of Mercury and Mercury Compounds in Industry Sectors (2003)

| Primary SIC Code | SIC Description | Total Priority Chemical Quantity | Onsite Disposal | Offsite Disposal | Onsite Energy Recovery | Offsite Energy Recovery | Onsite Treatment | Offsite Treatment | Onsite Recycling | Offsite Recycling |
|------------------------|--------------------------------------|----------------------------------|--------------------|---------------------|------------------------------|-------------------------------|---------------------|----------------------|---------------------|----------------------|
| 2819 | Industrial inorganic chemicals, nec | 9,887 | 6,448 | 3,386 | 0 | 0 | 0 | 52 | 209,264 | 40,896 |
| 3312 | Blast furnaces and steel mills | 7,918 | 86 | 7,833 | 0 | 0 | 0 | 0 | 43 | 1,246 |
| 2812 | Alkalies and chlorine | 6,361 | 562 | 5,799 | 0 | 0 | 0 | 0 | 212,143 | 9,377 |
| 2911 | Petroleum refining | 2,391 | 336 | 2,055 | 0 | 0 | 0 | 0 | 13 | 745 |
| 3823 | Process control instruments | 1,160 | 0 | 1,160 | 0 | 0 | 0 | 0 | 0 | 154 |
| 3479 | Metal coating and allied services | 1,083 | 0 | 1,083 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3274 | Lime | 926 | 723 | 203 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9999 | Nonclassifiable establishment | 900 | 0 | 900 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2046 | Wet corn milling | 711 | 0 | 711 | 0 | 0 | 0 | 0 | 0 | 67 |
| 3692 | Primary batteries, dry and wet | 671 | 0 | 671 | 0 | 0 | 0 | 0 | 0 | 64 |
| 9711 | National security | 656 | 9 | 647 | 0 | 0 | 0 | 0 | 797 | 6,947 |
| 2874 | Phosphatic fertilizers | 646 | 646 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8733 | Noncommercial research organizations | 601 | 0 | 601 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2899 | Chemical preparations, nec | 588 | 1 | 587 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1422 | Crushed and broken limestone | 566 | 566 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2621 | Paper mills | 560 | 235 | 324 | 0 | 0 | 0 | 0 | 0 | 75 |
| 2869 | Industrial organic chemicals, nec | 504 | 98 | 406 | 0 | 0 | 0 | 0 | 0 | 307 |
| 3641 | Electric lamps | 489 | 0 | 489 | 0 | 0 | 0 | 0 | 460 | 4,580 |

Recycling. Exhibit 4.152 provides some indication of the extent to which facilities in certain industry sectors recycled at least 100 pounds of mercury and mercury compounds in 1999-2003, rather than manage it as a waste. For those year(s), the facility did not report a PC quantity, i.e., a quantity managed via land disposal, energy recovery, or treatment.

Exhibit 4. 152. Facilities reporting Recycling but not a Priority Chemical quantity (1999-2003)

| | | | 1999 | | 2000 | | 2001 | | 2002 | | 2003 | |
|----------------------|---------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|
| Number of Facilities | EPA Region | State | Onsite Recycle | Offsite Recycle |
| SIC 1442 C | Constructio | on and gravel | <u> </u> | • | • | • | | | • | • | • | |
| 1 | 9 | California | 0 | 0 | 0 | 0 | 185 | 0 | 0 | 584 | 0 | 0 |
| SIC 2821 I | Paper mills | S | | • | • | • | • | | • | • | • | |
| 1 | 3 | Pennsylvania | 0 | 0 | 0 | 0 | 0 | 137 | 0 | 38 | 0 | 0 |
| SIC 2531 I | Paperboar | d mills | - | • | • | • | • | | • | • | • | |
| 1 | 10 | Oregon | 0 | 0 | 0 | 0 | 0 | 64 | 0 | 110 | 0 | 0 |
| SIC 2812 A | Alkalies an | d chlorine | | • | • | • | • | | • | • | • | |
| 1 | 6 | Louisiana | 8,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIC 2819I | ndustrial i | norganic chemicals | , nec | • | • | • | • | | • | • | • | |
| 1 | 3 | Pennsylvania | 105,000 | 0 | 112,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIC 2821 I | Plastics ma | terials and resins | | • | • | • | • | | • | • | • | |

| | 3 | Pennsylvania | 0 | 0 | 0 | 0 | 0 | 140 | 0 | 0 | 0 | 0 |
|--|--|--|---|--|---|---|---|--|---|--|---|---|
| SIC 2891 | Adhesives | and sealants | | | l. | l. | | | | l. | 1 | |
| 1 | 5 | Illinois | 0 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIC 2892 1 | Explosives | <u> </u> | | <u> </u> | | | | | | L | <u> </u> | |
| 1 | 6 | Texas | 0 | 0 | 0 | 0 | 0 | 504 | 0 | 116 | 0 | 23 |
| SIC 2899 | Chemical | preparations | | <u> </u> | | | | | | L | <u> </u> | |
| 1 | 5 | Ohio | 0 | 0 | 0 | 390 | 0 | 390 | 0 | 0 | 0 | 0 |
| SIC 2911 1 | Petroleum | Refining | <u> </u> | | | | | | L | | | |
| 1 | 2 | New Jersey | 0 | 0 | 0 | 5 | 0 | 1,751 | 0 | 0 | 0 | 0 |
| 1 | 6 | Texas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 179 | 0 | 0 |
| SIC 3275 0 | Gypsum p | | | | | | | - | | | | |
| 1 | 4 | Alabama | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 0 |
| | - | ic mineral products | | Ŭ | - | - | Ů | Ŭ | - | - | 100 | - |
| 1 | 5 | Ohio | | | 0 | 150 | | | | | 30 | 0 |
| _ | | aces and steel mills | | | · · | 130 | | | | | 50 | 0 |
| 1 | 2 | New Jersey | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 110 |
| 2 | 3 | Pennsylvania | 0 | 0 | 0 | 270 | 0 | 0 | 0 | 126 | 0 | 0 |
| 1 | 5 | Indiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,200 | 0 | 777 |
| 1 | 5 | Minnesota | 0 | 0 | 0 | 144 | 0 | 46 | 0 | 57 | 0 | 50 |
| 2 | 6 | Texas | 0 | 0 | 0 | 2,911 | 0 | 3,075 | 0 | 2,928 | 0 | 57 |
| | | ductile iron foundrie | | U | U | 2,711 | U | 3,073 | U | 2,720 | U | 37 |
| 1 | Gray and c | New York | 0 | 0 | 0 | 0 | 0 | 110 | 0 | 92 | 0 | 0 |
| _ | | nonferrous metals | U | U | U | U | U | 110 | U | 92 | U | U |
| 1 | Secondary | Louisiana | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 12 | 0 | 0 |
| | 1 E-b:4i | | | U | U | U | U | 130 | U | 12 | U | 0 |
| 1 | rabricated 3 | l plate work (boiler | snops) | 0 | 0 | 206 | 0 | 0 | 0 | ٥ | 0 | 0 |
| | _ | Virginia | | U | U | 206 | 0 | U | U | 0 | 0 | 0 |
| | abricated 7 | metal products, nec | 0 | 50.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | | Iowa | 0 | 596 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 4 | | 1 | 1 | | | | | | - |
| 31C 3301 F | | pumping equipmen | | ٥ | | | | 100 | | 145 | ما | 1.40 |
| 1 | 3 | Maryland | n t 0 | 0 | 0 | 0 | 0 | 100 | 0 | 145 | 0 | 148 |
| 1 SIC 3564 I | 3 | Maryland | 0 | 0 | | 0 | | 100 | | 145 | | 148 |
| 1 SIC 3564 I | 3 Blowers an | Maryland | 1 999 | | 2000 | | 2001 | | 2002 | | 2003 | |
| 1 SIC 3564 I | 3 Blowers an EPA | Maryland | 1999 Onsite | Offsite | 2000 Onsite | Offsite | 2001 Onsite | Offsite | 2002 Onsite | Offsite | 2003 Onsite | Offsite |
| 1 SIC 3564 I | 3 Blowers an | Maryland d fans | 1 999 | | 2000 | | 2001 | | 2002 | | 2003 | |
| 1 SIC 3564 I Number of Facilities 1 | 3 Blowers an EPA Region 5 | Maryland d fans State Indiana | 1999 Onsite Recycle | Offsite Recycle | 2000 Onsite Recycle | Offsite Recycle | 2001 Onsite Recycle | Offsite Recycle | 2002 Onsite Recycle | Offsite Recycle | 2003 Onsite Recycle | Offsite Recycle |
| 1 SIC 3564 I Number of Facilities 1 | 3 Blowers an EPA Region 5 | Maryland d fans State | 1999 Onsite Recycle 0 pparatus | Offsite Recycle | 2000 Onsite Recycle | Offsite Recycle | 2001 Onsite Recycle | Offsite Recycle | 2002 Onsite Recycle | Offsite Recycle | 2003 Onsite Recycle | Offsite Recycle |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S | 3 Blowers an EPA Region 5 Switchgear 2 | Maryland d fans State Indiana and switchboard a New Jersey | 1999 Onsite Recycle 0 pparatus | Offsite Recycle | 2000 Onsite Recycle | Offsite Recycle | 2001 Onsite Recycle | Offsite Recycle | 2002 Onsite Recycle | Offsite Recycle | 2003 Onsite Recycle | Offsite Recycle |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S | 3 Blowers an EPA Region 5 Switchgear 2 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus | 1999 Onsite Recycle 0 pparatus | Offsite Recycle | 2000 Onsite Recycle 0 | Offsite Recycle | 2001 Onsite Recycle 0 | Offsite Recycle 160 | 2002 Onsite Recycle | Offsite Recycle | 2003 Onsite Recycle 0 | Offsite Recycle 0 2,350 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I | 3 Blowers an EPA Region 5 Switchgear 2 Electrical i | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico | 1999 Onsite Recycle 0 pparatus 0 | Offsite Recycle 0 | 2000 Onsite Recycle 0 | Offsite Recycle 0 | 2001 Onsite Recycle | Offsite Recycle | 2002 Onsite Recycle | Offsite Recycle 0 | 2003 Onsite Recycle | Offsite Recycle |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I | 3 Blowers an EPA Region 5 Switchgear 2 Electrical i | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec | 1999 Onsite Recycle 0 pparatus 0 | Offsite Recycle 0 | 2000 Onsite Recycle 0 | Offsite Recycle 0 | 2001 Onsite Recycle 0 | Offsite Recycle 160 | 2002 Onsite Recycle | Offsite Recycle 0 3,173 | 2003 Onsite Recycle 0 0 | Offsite Recycle 0 2,350 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I SIC 3639 I | 3 Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee | 1999 Onsite Recycle 0 opparatus 0 , nec | Offsite Recycle 0 0 | 2000 Onsite Recycle 0 | Offsite Recycle 0 0 | 2001 Onsite Recycle 0 | Offsite Recycle 160 0 | 2002 Onsite Recycle 0 | Offsite Recycle 0 | 2003 Onsite Recycle 0 | Offsite Recycle 0 2,350 1,403 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I | 3 Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps | 1999 Onsite Recycle 0 pparatus 0, nec 0 | Offsite Recycle 0 0 0 | 2000 Onsite Recycle 0 | Offsite Recycle 0 0 0 | 2001 Onsite Recycle 0 0 0 | Offsite Recycle 160 0 | 2002 Onsite Recycle 0 | Offsite Recycle 0 3,173 | 2003 Onsite Recycle 0 0 0 | Offsite Recycle 0 2,350 1,403 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I SIC 3641 I | 3 Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La | Maryland d fans State Indiana and switchboard ap New Jersey Industrial apparatus Puerto Rico appliances, nec Tennessee Imps Kentucky | 1999 Onsite Recycle 0 pparatus 0, nec 0 | Offsite Recycle 0 0 0 5,254 | 2000 Onsite Recycle 0 0 0 | Offsite Recycle 0 0 0 3,137 | 2001 Onsite Recycle 0 0 0 | Offsite Recycle 160 0 1,392 0 | 2002 Onsite Recycle 0 0 0 0 | Offsite Recycle 0 3,173 0 243 | 2003 Onsite Recycle 0 0 0 0 | Offsite Recycle 0 2,350 1,403 65 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I 1 SIC 3641 I | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois | 1999 Onsite Recycle 0 pparatus 0 , nec 0 | Offsite Recycle 0 0 0 | 2000 Onsite Recycle 0 0 0 | Offsite Recycle 0 0 0 | 2001 Onsite Recycle 0 0 0 | Offsite Recycle 160 0 1,392 | 2002 Onsite Recycle 0 0 0 | Offsite Recycle 0 3,173 0 243 | 2003 Onsite Recycle 0 0 0 | Offsite Recycle 0 2,350 1,403 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I 1 SIC 3641 I 1 SIC 3674 S | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de | 1999 Onsite Recycle 0 pparatus 0 , nec 0 | Offsite Recycle 0 0 0 5,254 | 2000 Onsite Recycle 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 | 2001 Onsite Recycle 0 0 0 0 | Offsite Recycle 160 0 1,392 0 0 218 | 2002 Onsite Recycle 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 | 2003 Onsite Recycle 0 0 0 0 0 | Offsite Recycle 0 2,350 1,403 65 0 26 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I 1 SIC 3641 I 1 SIC 3674 S | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas | 1999 Onsite Recycle 0 pparatus 0 , nec 0 | Offsite Recycle 0 0 0 5,254 | 2000 Onsite Recycle 0 0 0 | Offsite Recycle 0 0 0 3,137 | 2001 Onsite Recycle 0 0 0 | Offsite Recycle 160 0 1,392 0 | 2002 Onsite Recycle 0 0 0 0 | Offsite Recycle 0 3,173 0 243 | 2003 Onsite Recycle 0 0 0 0 | Offsite Recycle 0 2,350 1,403 65 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I 1 SIC 3641 I 1 SIC 3674 S 1 | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 | Maryland d fans State Indiana Pand switchboard ap New Jersey Industrial apparatus Puerto Rico appliances, nec Tennessee Imps Kentucky Illinois ctors and related de Texas Components, nec | 1999 Onsite Recycle Opparatus Opparatus O O O O O O O O O O O O O O O O O O O | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2000 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 | 2001 Onsite Recycle 0 0 0 0 0 0 0 0 0 | Offsite Recycle 160 0 1,392 0 218 | 2002 Onsite Recycle 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 0 194 | 2003 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | 0 2,350 1,403 65 0 26 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I 1 SIC 3641 I 1 SIC 3674 S 1 SIC 3676 I | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 Electronic 5 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas Components, nec Indiana | 1999 Onsite Recycle 0 pparatus 0 , nec 0 | Offsite Recycle 0 0 0 5,254 | 2000 Onsite Recycle 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 | 2001 Onsite Recycle 0 0 0 0 | Offsite Recycle 160 0 1,392 0 0 218 | 2002 Onsite Recycle 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 | 2003 Onsite Recycle 0 0 0 0 0 | Offsite Recycle 0 2,350 1,403 65 0 26 |
| 1 SIC 3564 I SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I SIC 3639 I SIC 3641 I SIC 3676 I SIC 3691 S | 3 Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 Electronic 5 Storage Ba | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas Components, nec Indiana tteries | 1999 Onsite Recycle Opparatus O, nec O O O O O O O O O O O O O O O O O O O | Offsite Recycle 0 0 0 5,254 0 5,391 | 2000 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 0 1,579 | 2001 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 160 0 1,392 0 218 326 1,592 | 2002 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 0 194 | 2003 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 | 0 2,350 1,403 65 26 20 |
| 1 SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I SIC 3639 I SIC 3641 I 1 SIC 3676 I SIC 3691 S | 3 Blowers an Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 Electronic 5 Storage Ba 3 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas Components, nec Indiana tteries Pennsylvania | 1999 Onsite Recycle Opparatus O, nec O O O O O O O O O O O O O O O O O O O | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2000 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 | 2001 Onsite Recycle 0 0 0 0 0 0 0 0 0 | Offsite Recycle 160 0 1,392 0 218 | 2002 Onsite Recycle 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 0 194 | 2003 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | 0 2,350 1,403 65 0 26 |
| 1 SIC 3564 I SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I SIC 3639 I 1 SIC 3641 I 1 SIC 3674 S 1 SIC 3691 S 1 SIC 3692 I | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 Electronic 5 Storage Ba 3 Primary ba | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas Components, nec Indiana tteries Pennsylvania atteries, dry and wet | 1999 Onsite Recycle 0 pparatus 0, nec 0 0 vices 0 | Offsite Recycle 0 0 0 5,254 0 5,391 | 2000 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 1,579 | 2001 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 160 0 1,392 0 218 326 1,592 | 2002 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 0 194 0 0 | 2003 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 2,350 1,403 65 0 26 |
| 1 SIC 3564 I SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I SIC 3639 I SIC 3641 I SIC 3674 S 1 SIC 3691 S 1 SIC 3692 I | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 Electronic 5 Storage Ba 3 Primary ba 1 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas Components, nec Indiana tteries Pennsylvania | 1999 Onsite Recycle Opparatus O, nec O O O O O O O O O O O O O O O O O O O | Offsite Recycle 0 0 0 5,254 0 5,391 | 2000 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 0 1,579 | 2001 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 160 0 1,392 0 218 326 1,592 | 2002 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 0 194 | 2003 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 | 0 2,350 1,403 65 26 20 |
| 1 SIC 3564 I SIC 3564 I Number of Facilities 1 SIC 3613 S 1 SIC 3629 I SIC 3639 I SIC 3641 I 1 SIC 3676 I SIC 3691 S 1 SIC 3692 I SIC 3721 A | Blowers an EPA Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 Electronic 5 Storage Ba 3 Primary ba 1 Aircraft | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas Components, nec Indiana tteries Pennsylvania atteries, dry and wet Vermont | 1999 Onsite Recycle Oparatus O , nec O O O O O O O O O O O O O O O O O O O | Offsite Recycle 0 0 0 5,254 0 5,391 0 | 2000 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 1,579 110 | 2001 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 160 0 1,392 0 218 326 1,592 12 3,500 | 2002 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 0 194 0 5,900 | 2003 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 2,350 1,403 65 0 26 20 0 8,858 |
| 1 SIC 3564 I SIC 3564 I SIC 3613 S 1 SIC 3629 I 1 SIC 3639 I 1 SIC 3641 I 1 SIC 3674 S 1 SIC 3692 I SIC 3692 I SIC 3721 A | Blowers and Region 5 Switchgear 2 Electrical i 2 Household 4 Electric La 4 5 Semicondu 6 Electronic 5 Storage Ba 3 Primary ba 1 Aircraft 7 | Maryland d fans State Indiana and switchboard ap New Jersey ndustrial apparatus Puerto Rico appliances, nec Tennessee mps Kentucky Illinois ctors and related de Texas Components, nec Indiana tteries Pennsylvania atteries, dry and wet | 0 1999 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 5,254 0 5,391 | 2000 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 0 0 3,137 16 1,579 | 2001 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 160 0 1,392 0 218 326 1,592 | 2002 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 | Offsite Recycle 0 3,173 0 243 0 194 0 0 | 2003 Onsite Recycle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 2,350 1,403 65 0 26 |

| 1 | 5 | Indiana | 0 | 0 | 0 | 46 | 0 | 95 | 0 | 176 | 0 | 320 |
|------------|------------|-----------------------|------------|---|---|-------|---|-------|---|--------|---|-------|
| SIC 3812 S | Search and | d navigation equipm | ent | | | | | | | | | |
| 1 | 9 | California | 0 | 0 | 0 | 0 | 0 | 160 | 0 | 197 | 0 | 401 |
| SIC 3823 I | Process co | ntrol instruments | | | | | | | | | | |
| 1 | 3 | Pennsylvania | 0 | 0 | 0 | 538 | 0 | 0 | 0 | 581 | 0 | 0 |
| SIC 3829 I | Measuring | g and controlling dev | vices, nec | | | | | | | | | |
| 1 | 1 | Massachusetts | 0 | 0 | 0 | 215 | 0 | 0 | 0 | 150 | 0 | 174 |
| 1 | 5 | Minnesota | 0 | 0 | 0 | 243 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIC 3843 I | Dental equ | ipment and supplies | s | | • | | | | | • | • | |
| 1 | 3 | Delaware | 0 | 0 | 0 | 3,320 | 0 | 3,327 | 0 | 28,100 | 0 | 6,089 |
| 1 | 5 | Michigan | 0 | 0 | 0 | 6,300 | 0 | 6,600 | 0 | 2,500 | 0 | 2,500 |
| SIC 3845 I | Electrome | dical equipment | | | | | | | | | | |
| 1 | 4 | Florida | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 267 | 0 | 0 |
| SIC 9199 (| General go | overnment | | | | | | | | | | |
| 1 | 10 | Oregon | 0 | 0 | 0 | 275 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIC 9999 N | Nonclassif | iable Establishment | | | | | | | | | | |
| 1 | 4 | North Carolina | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 |
| | • | | | | | | | | | | | |